Credit 1st & Final

BR-246/31-7-14

M. A. R. 57 (Rule 116)
Measurement Book

No. B

183116

Name of Work: Improvements to Roads and Drains at Kodigehalli To Kodigehalli village in ward no. 40

Name of Contractor of nature of Agency: KRIDL, Malleshwaram, Banglore.

Date of commencement of work:

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions: Length 4	Dimensions: Breadth 5	Dimensions: Depth 6	Contents 7	Reference to last Measurement 8
	Work order: EE/BTP/BBMP/KRIDL/WO/58/2013-14 Date: 18/07/2014.						
	Work code No: 008-14-000055						
	Est cost: 50.00 lakhs						
	Earth work excavation for foundation of buildings, culverts, water supply, sanitary line and electrical conduits in pits or in trenches 1.5m and above in width in hard soil not exceeding 1.5m depth including dressing to complete.						
	BS Slab drain						
	Cross Road A	4	30.00	0.75	0.60	54.00	
	Cross Road B	1	30.00	0.75	0.60	13.50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	20.50	0.75	0.60	7.38	
	Cross Road C	1	30.00	0.75	0.60	13.50	
		1	34.00	0.60	0.60	12.24	
	Cross Road D	2	30.00	0.60	0.60	21.60	
		1	14.50	0.60	0.60	5.22	
	Cross Road E	1	31.70	0.60	0.60	11.41	
	Cross Road I	7	30.00	0.60	0.60	25.60	
		1	32.70	0.60	0.60	11.77	
	Cross Road H	2	30.00	0.60	0.60	21.60	
	Cross Road F	1	35.30	0.60	0.60	12.71	
	For CC Drain	1	34.50	1.00	0.90	31.05	
		1	30.00	1.00	0.90	27.00	
		1	30.00	1.00	0.90	27.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183117

Reference to last Measurement 8

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
	1	30.00	1.00	0.90	27.00	
	1	29.80	1.00	0.90	26.82	
			Total		389.97 cu	
			@		227.88/cu	88866.00
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing carriage complete 7.5 km lead						
Cross Road A	4	30.00	-	1.35	162.00	
Cross Road B	1	30.00	-	1.35	40.50	
	1	20.50	-	1.35	83.83	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremen
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cross Road C	1	30.00	-	1.65	49.50	
		1	34.00	-	1.65	56.10	
	cross Road D	2	30.00	-	1.65	99.00	
		1	14.50	-	1.65	23.93	
	cross Road E	1	31.70	-	1.65	52.31	
	cross Road I	7	30.00	-	1.65	346.50	
		1	32.70	-	1.65	44.15	
	cross Road H	2	30.00	-	1.65	99.00	
	cross Road F	1	35.30	-	1.65	47.66	
						1003.80 Rm	
					@	343.44/ Rm	344745.00
3)	providing and laying in position Plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs using known and above size crushed granite metal coarse aggregate						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183118

Reference to last Measurement 8

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
@ 0·85cm and fine aggregate @ 0·85cm machine mixed concrete laid & compacted,						
CC drain Bottom concrete	1	34·50	1·00	0·15	5·18	
	1	30·00	1·00	0·15	4·50	
	1	30·00	1·00	0·15	4·50	
	1	30·00	1·00	0·15	4·50	
	1	29·80	1·00	0·15	4·47	
					22·50 cum	
4745·00				@	4290·84/cum	96544·00
opc						
	providing and removing centering, shuttering, shulting, propping & and removal of form work of vertical surface such as wall of any thickness including attached pilasters buttresses, plinth and					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremen
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	String courses as completed.						
	CC Drain Side wall	4	34.50	-	0.60	82.80	
		4	30.00	-	0.60	72.00	
		4	30.00	-	0.60	72.00	
		4	30.00	-	0.60	72.00	
		4	29.80	-	0.60	71.52	
	covering Bottom	1	34.50	0.60	-	20.70	
		1	30.00	0.60	-	18.00	
		1	30.00	0.60	-	18.00	
		1	30.00	0.60	-	18.00	
		1	29.80	0.60	-	17.88	
	covering Slab sides	2	34.50	-	0.15	10.35	
		2	30.00	-	0.15	9.00	
		2	30.00	-	0.15	9.00	
		2	30.00	-	0.15	9.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

183119

Reference to last Measurement 8

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
		Length	Breadth	Depth		
2	3	4	5	6	7	8
	2	29.80	-	0.15	8.94	
	8	0.90	-	0.15	1.08	
			Total		510.00 Sq.m	
				@	271.08/Sq.m	1382517.00
Providing and laying cement concrete using 20mm and down size Granite Jelly of ready mixed concrete (RMC) for RCC work laid in 15cm thick layers and well compacted vibrating finishing with necessary cement mortar as complete						
CC drain bottom concrete	1	34.50	0.90	0.15	4.66	
	1	30.00	0.90	0.15	4.05	
	1	30.00	0.90	0.15	4.05	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremen
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	0.90	0.15	4.05	
		1	29.80	0.90	0.15	4.02	
	Side wall	2	34.50	0.15	0.60	6.21	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.55	4.95	
		2	30.00	0.15	0.60	5.40	
		2	29.80	0.15	0.55	4.92	
	covering slab	1	34.50	0.90	0.15	3.11	
		1	30.00	0.90	0.10	2.70	
		1	30.00	0.90	0.10	2.70	
		1	30.00	0.90	0.10	2.70	
		1	29.80	0.90	0.10	2.68	
						60.75 Cu	
					@	6464.88/Cu	392741 =

M. A. R. 57 (Rule 116)
Measurement Book

No. B
183120

Reference to last Measurement
8

Work .....

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Full description, etc, of work	Number	Dimensions Length	Dimensions Breadth	Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
Providing TMT Steel reinforcement for RCC work including, straightening cutting bending making placing in position lapping and/or welding wherever required tying with binding wire complete, As per premeasurement Recorded vide page No 183186 & this MB P/S ~~P83156~~					36.45 Qtl @ 7450.92/Qtl	271586.00
Scarifying existing stone metal layer upto 75mm thick along with tarry bituminous surface picking up scarified materials and stacking & old serviceable material with lead & from sequential spreading & the salvaged aggregates ~~as~~ complete						
From Road A	1	30.00	(6.3+6.1)	—	186.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	(6.1 + 6.6) / 2	-	190.50	
		1	30.00	(6.6 + 6.9) / 2	-	202.50	
		1	30.00	(6.9 + 7.0) / 2	-	208.50	
	CROSS Road B	1	30.00	6.60	-	198.00	
		1	20.70	(6.6 + 7.1) / 2	-	141.80	
	CROSS Road C	1	30.00	(6.2 + 6.6) / 2	-	192.00	
		1	34.00	(6.6 + 6.4) / 2	-	221.00	
	CROSS Road D	1	30.00	(7.5 + 6.2) / 2	-	205.50	
		1	30.00	(6.2 + 6.4) / 2	-	189.00	
		1	14.50	6.40	-	92.80	

M. A. R. 57 (Rule 116)
Measurement Book

No. B
183121

Reference to last Measurement
8

Name of Work .....
Work Order No. ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
		Length	Breadth			
2	3	4	5	6	7	8
cross Road E	1	31.80	(6.9+7.6)/2	-	230.55	
cross Road F	1	35.30	(5.9+3.1)/2	-	158.85	
cross Road G	1	30.00	(4.0+4.5)/2	-	127.50	
	1	30.00	(4.5+4.0)/2	-	127.50	
	1	30.00	(4.0+5.9)/2	-	148.50	
	1	11.00	(5.9+6.0)/2	-	65.45	
cross Road H	1	30.00	(6.5+5.0)/2	-	172.50	
	1	30.00	(5.0+5.3)/2	-	154.50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremer
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	18·10	(4·5+8·0)/2	-	95·03	
		1	30·00	(4·6+4·8)/2	-	141·00	
		1	30·00	4·80	-	144·00	
		1	28·00	(4·8+3·9)/2	-	121·80	
	Cross Road I	1	30·60	(6·0+6·2)/2	-	186·66	
	Cross Road J	1	30·00	(6·2+5·0)/2	-	168·00	
		1	28·00	5·00	-	140·00	
						4200·25 Sq	
					@	72.79/Sq	305736

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183122

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions - Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Providing laying spreading and compacting crushed stone aggregates to wet mix macadam specification including premixing the material with water at site in mechanical mix plant carriage et complete.						
	U/S line cutting						
	Cross Road A	4	30.00	1.00	0.20	24.00	
	Cross Road B	1	30.00	1.00	0.20	6.00	
	Cross Road C	1	20.70	1.00	0.20	4.14	
		1	30.00	1.00	0.20	6.00	
		1	34.00	1.00	0.20	6.80	
305736-00	Cross Road D	2	30.00	1.00	0.20	12.00	
		1	14.50	1.00	0.20	2.90	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cross Road E	1	31.80	1.00	0.20	6.36	
	—1— F	1	35.30	1.00	0.20	7.06	
	—11— G	3	30.00	1.00	0.20	18.00	
		1	11.00	1.00	0.20	2.20	
	cross Road H	2	30.00	1.00	0.20	12.00	
		1	18.10	1.00	0.20	3.62	
		2	30.00	1.00	0.20	12.00	
		1	28.00	1.00	0.20	5.60	
	cross Road I	1	30.60	1.00	0.20	6.12	
	—11— J	1	30.00	1.00	0.20	6.00	
		1	28.00	1.00	0.20	5.60	
	Road surface						
	Cross Road A	1	30.00	(6.3+6.1)/2	0.20	37.26	
		1	30.00	(6.1+6.6)/2	0.20	38.10	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183123

Reference to last Measurement 8

[illegible] ..... From ..... To .....

[illegible] Contractor of nature of Agency.....

[illegible] commencement of work.....

[illegible] Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
	1	30.00	(6.6+6.9)/2	0.20	40.20	
	1	30.00	(6.8+7.00)/2	0.20	38.60	
CROSS Road B	1	30.00	6.60	0.20	39.60	
	1	20.70	(6.6+7.1)/2	0.20	28.26	
CROSS Road C	1	30.00	(6.2+6.6)/2	0.20	38.40	
	1	34.00	(6.6+6.4)/2	0.20	44.20	
CROSS Road D	1	30.00	(7.5+6.2)/2	0.20	41.10	
	1	30.00	(6.2+6.4)/2	0.20	37.80	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	14.50	6.40	0.20	18.56	
	Cross Road E	1	31.80	$\frac{(6.9+7.6)}{2}$	0.20	46.11	
	Cross Road F	1	35.30	$\frac{(5.9+3.1)}{2}$	0.20	31.77	
	← G	1	30.00	$\frac{(4.0+4.5)}{2}$	0.20	25.50	
		1	30.00	$\frac{(4.5+4.0)}{2}$	0.20	25.50	
		1	30.00	$\frac{(4.0+5.9)}{2}$	0.20	29.70	
		1	11.00	$\frac{(5.9+6.0)}{2}$	0.20	13.09	
	Cross Road H	1	30.00	$\frac{(6.5+5.0)}{2}$	0.20	34.50	
		1	30.00	$\frac{(5.0+5.3)}{2}$	0.20	30.90	
		1	18.10	$\frac{(4.5+6.0)}{2}$	0.20	19.10	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183124

Reference to last Measurement
8

[illegible] From ..... To .....

[illegible] of nature of Agency.....

[illegible] commencement of work.....

[illegible] Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
	1	30.00	$\frac{(4.6+4.8)}{2}$	0.20	28.20	
	1	30.08	4.80	0.20	28.80	
	1	28.00	$\frac{(4.8+3.9)}{2}$	0.20	24.36	
cross Road I	1	30.60	$\frac{(6.0+6.2)}{2}$	0.20	37.33	
— " — 5	1	30.00	$\frac{(6.2+5.0)}{2}$	0.20	33.60	
	1	28.00	5.00	0.20	28.00	
			Total		987.85 Cy	
				@	112.04 / Cy	1107419=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	9) Cleaning the existing WBM road surface including removing of binding material and other foreign matter with wire brushes and small pieces sweeping with brooms or coir brushes &c complete						
		Qty vide item No:			(7)	4200.25 Sq	
					@	10.53 / Sq	44229=00
	10) Providing and applying primer coat from 12.2 to 16.6 Kg per 10 sqm for surface of high porosity over prepared surface of granular base with cut back MC 70 or any other bitumen mixed with diesel &c complete						
		Qty vide item No			(09)	4200.25 Sq	
					@	142.07 / Sq	596730=00
	11) Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183125

Reference to last Measurement 8

.....

..... From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
using crushed aggregates ex complete						
Cross Road A	1	30.00	$\frac{(6.3+6.1)}{2}$	0.025	4.65	
	1	30.00	$\frac{(6.1+6.6)}{2}$	0.025	4.76	
	1	30.00	$\frac{(6.6+6.9)}{2}$	0.025	5.06	
	1	30.00	$\frac{(6.9+7.0)}{2}$	0.025	5.21	
CR B	1	30.00	6.60	0.025	4.95	
	1	20.20	$\frac{(6.60+7.1)}{2}$	0.025	3.54	
CR C	1	30.00	$\frac{(6.2+6.6)}{2}$	0.025	4.80	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	34.00	(6.6+6.4)	0.025	5.53	
	CR D	1	30.00	(7.5+6.2)	0.025	5.14	
		1	30.00	(6.2+6.4)	0.025	4.73	
		1	14.50	6.40	0.025	2.32	
	CR E	1	31.80	(6.7+7.6)	0.025	5.76	
	" F	1	35.30	(5.9+3.1)	0.025	3.97	
	" G	1	30.00	(4.0+4.5)	0.025	3.19	
		1	30.00	(4.5+4.0)	0.025	3.19	
		1	30.00	(4.0+5.9)	0.025	3.71	
		1	11.00	(5.9+6.0)	0.025	1.64	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183126

Reference to last Measurement 8

..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
		Length	Breadth	Depth		
2	3	4	5	6	7	8
CR H	1	30.00	(6.5+5.0)/2	0.025	4.31	
	1	30.00	(5.0+5.3)/2	0.025	3.86	
	1	18.10	(4.5+6.0)/2	0.025	2.38	
	1	30.00	(4.6+4.8)/2	0.025	3.53	
	1	30.00	4.80	0.025	3.60	
	1	28.00	(4.8+3.9)/2	0.025	3.05	
CR I	1	30.60	(6.0+6.2)/2	0.025	4.67	
CR J	1	30.00	(6.2+5.0)/2	0.025	4.20	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	28.00	5.00	0.025	3.50	
						105.01 cu	
					@	9981.36/cu	
							1048143=00
	12) lead for disposal shall be payable at carriage rates by mechanical means including loading and unloading etc complete						
		Qty vide Item No:			①	389.92 cu	
					@	72.71/cu	28355=00
					SUB TOTAL		4463345=00
					IKRIDL charges @	11%	490968=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183127

Reference to last Measurement 8

..... From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

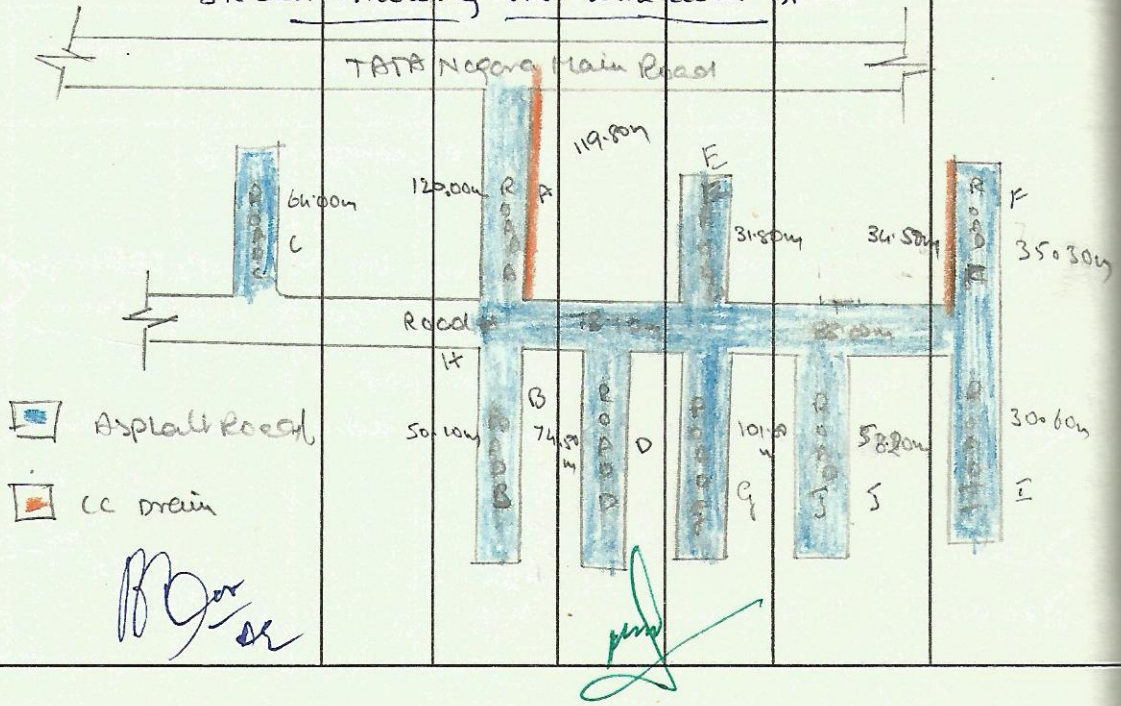
Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
		TPI charges @ 1%				44633=00
					Total	4998946=00
						49,54,313=00
Certificate: certified that the above work done is satisfactorily.						

Cft all Rs amounts
D. K. Madhu Lodha

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Sketch showing the work done spot:



M. A. R. 57 (Rule 116)
Measurement Book

No. B 183123

Reference to last Measurement
8

..... From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
	Number	Length	Breadth / Depth		
2	3	4	5 / 6	7	8
	4954,313=00		IT	99086	
	739351=00		VAT	198173	
			FSD	322030	
	4214,962=00		Cess	49543	
			Cess	4954	
			Roy	65565	
			Total	739351=00	